

※ Make sure to read this operating manual before use for your safety and proper use.

# AUTOLIGHTING MANUAL

(Motion Sensor Switch) Rev 1.0



## MODEL

- **MS-8S**  
(Voltage output)
- **MS-4B**  
(change-over contact)



**! Warning** Especially never use it where safety and property is in risk.

**HAN SEUNG**

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## 1. Descriptions of parts



◆ Microwave sensor detects moving objects and turns switch on/off automatically



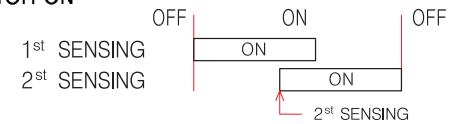
- ① RESET : Restart the product when malfunctioned
- ② Illuminance Sensor
- ③ Illuminance Set
  - ☀ - Sensing regardless of illuminance
  - ☁ - Sensing under 60 lux
  - ☾ - Sensing under 10 lux
  - ☾ - Manual On
- ④ ON TIME SET (1S - 60M)
- ⑤ SENSITIVITY SET
  - 📶 - High Sensitivity (front : 15~20m)
  - 📶 - Normal Sensitivity (10m)
  - 📶 - Low Sensitivity (5m)

## 2. Setting

### 1) ON TIME SET

SETTING TIME									
1S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	1M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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1	2	3	4						
5S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	3M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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10S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	5M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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15S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	10M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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20S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	15M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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30S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	20M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
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40S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	30M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
1	2	3	4						
1	2	3	4						
50S <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4	60M <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	1	2	3	4
1	2	3	4						
1	2	3	4						

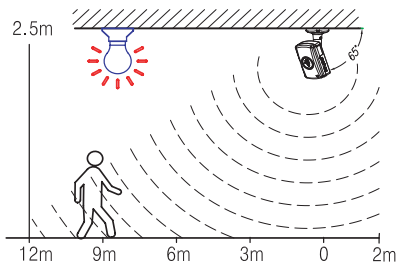
### 2) SWITCH ON



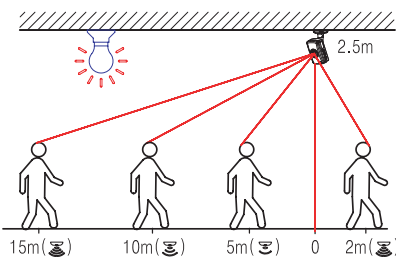
◆ On Timer (the lighting hour) starts after last sensing

## 3. OPERATING DISTANCE

### 1) EX) Install Angle : 65°

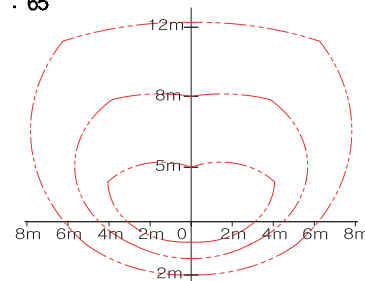


### 2) Distance

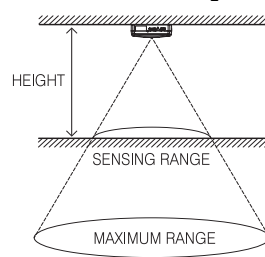


## 4. OPERATING RANGE

### 1) EX) Range : 65°



### 2) Installed on ceiling



◆ WHEN  
Height : 2.5m,  
Sensing level :  
RANGE is about  
left/right : 2.5m,  
top/bottom : 1.5m

## 5. SPECIFICATIONS

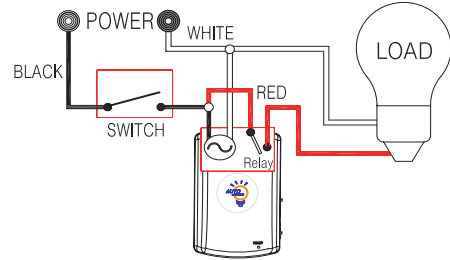
### AUTOLIGHTING (MOTION SENSOR SWITCH)

MODEL	MS-8S	MS-4B
SENSING DISTANCE	FRONT : 15~20m, SIDE : 5~6m, BACK : 1~2m	
SENSING ANGLE	LEFT/RIGHT : 170°, TOP/BOTTOM : 110°	
RATED VOLTAGE	110~220VAC, 50/60Hz	
RATED CURRENT	8A(2A)	4A(1A)
CURRENT CONSUMPTION	LESS THAN 1W	
TEMPERATURE	-20°C ~50°C	
HUMIDITY	93 %	
OUTPUT	Voltage Output	Change-over Contact
DIMENSION	75 X 118 X 40	

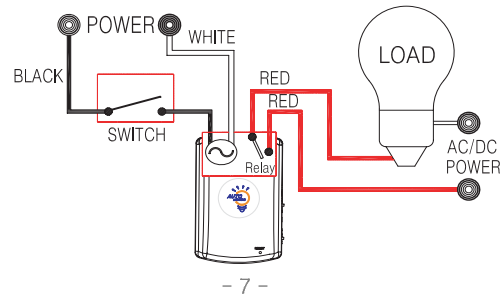
- ※ Do not connect electric heater and the motor load directly. Use magnetic connector for connection.
- ※ Use **under 80%** of the rated load for long lifetime use without malfunction.

## 6-1) MS-4B WIRING DIAGRAM

### VOLTAGE OUTPUT WIRING

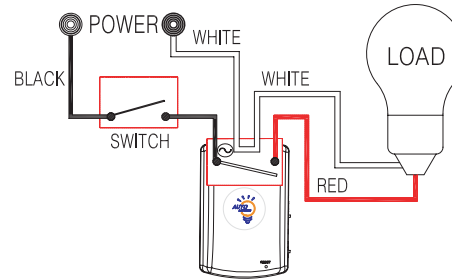


### CHANGE-OVER CONTACT WIRING

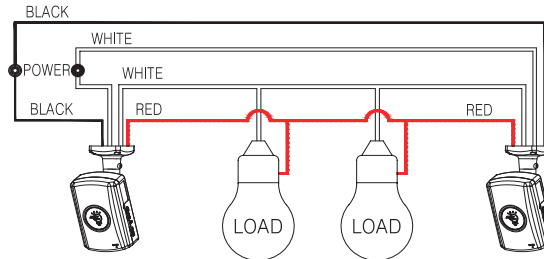


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## 6-2) MS-8S WIRING DIAGRAM



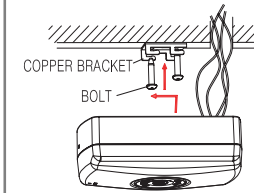
### ※ Install more than 2 PCS



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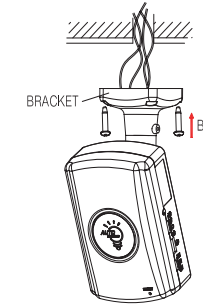
## 7-1) INSTALLATION

### 1) FIXED



- 1) Switch off while installing
- 2) Fix copper bracket on the ceiling with bolt
- 3) Connect wires
- 4) Hang product on the copper bracket
- 5) Supply electrical power (1sec blink means normal)

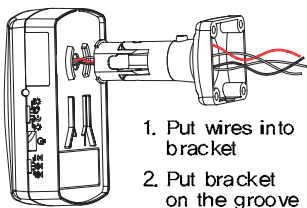
### 2) DIRECTION ADJUSTABLE



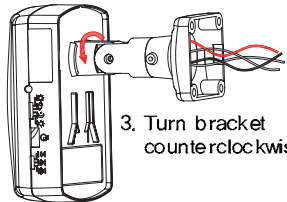
- 1) Switch off while installing
- 2) Connect wires
- 3) Fix bracket on the ceiling with bolts
- 4) Adjust direction product facing
- 5) Supply electrical power (1sec blink means normal)

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## 7-2) BRACKET



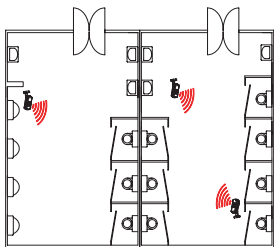
1. Put wires into bracket
2. Put bracket on the groove



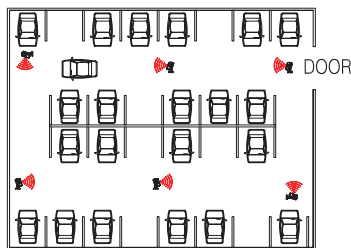
3. Turn bracket counterclockwise

## 8. POSITION OF INSTALLATION

### 1) PUBLIC TOILET

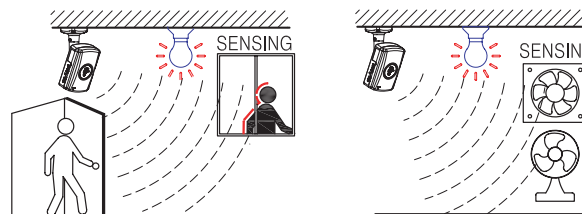


### 2) PARKING LOT



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## 9. CHARACTER OF SENSOR



- 1) Microwave sensor detects the movement beyond glass or through door crevice (Can't penetrate metallic material, concrete).
- 2) Install the product 1m away from the door to avoid misoperation due to the sensing range
- 3) Microwave sensor can detect any movements (fan, ventilator, wave of branch etc.) in sensing area, if it moves under 20m/s speed
  - Parking lot install -
  - (1) Moving direction
    - : One-way or Two-way traffic
  - (2) Install spacing
    - : Recommend 1 product per 5 parking spaces
  - (3) Adjacency to telegraphic repeater
    - : Due to the character of sensor (radio frequency), may cause malfunction, if installed near telegraphic repeater in 2~3m
    - : Install the product not facing telegraphic repeater

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## 10. CAUTION

- 1) Make sure to read this operating manual before use for your safety and proper use
- 2) Install this product indoors. Arrange safety net such as duplex circuit if loss of wealth is expected when products malfunctions
- 3) Avoid wet, humid place for safe installation
- 4) Make sure to attach additional magnetic contactor when load capacity is higher than rated capacity

## 11. WARRANTY

- ◆ This product has been inspected and quality managed thoroughly.
1. The manufacturer will repair free of charge when contacted within 18 months from manufactured date in case of malfunctions during normal operation or manufacturing defects.
  2. Exception : Customer will be charged for repairs within warranty period in case of following conditions.
  3. This Operating Manual will not be re-issued and should be well kept
- Chaged Customer Service
1. After warranty period.
  2. Malfunction or damage caused by customer negligence.
  3. Malfunction caused by improper handling.
  4. Malfunction caused by natural disasters.
  5. Product repaired and modified or damaged by other than the employee of the manufacturer.



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